

CCA GCA ACC AAT GAT GCC CGT T-TAMRA-3'  
 CA GCA ACC AAT GAT GCC CGT T-TAMRA-3'

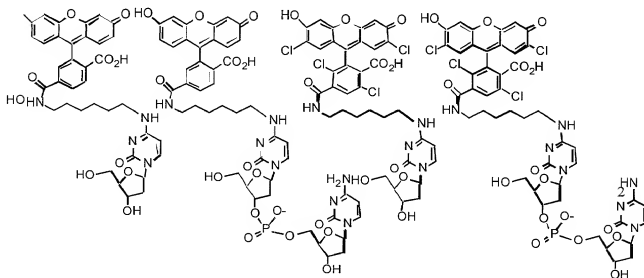
CCA GCA AGC ACT GAT GCC TGT T-TAMRA-3'  
 CA GCA AGC ACT GAT GCC TGT T-TAMRA-3'

**Fig. 1A**

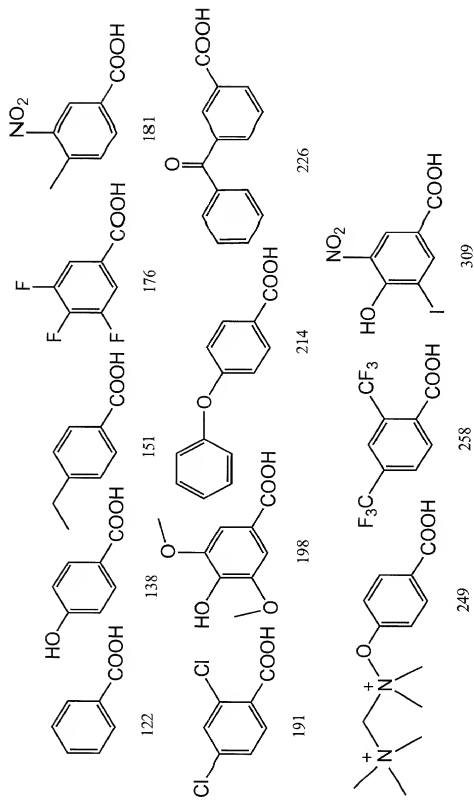
	Fluorescent Dyes	
	<u>Absorbance Maxima</u>	<u>Emission Maxima</u>
Fluorescein	494nm	525nm
Tetrachloro fluorescein	521nm	536nm
TAMRA	565nm	580nm

**Fig. 1B**

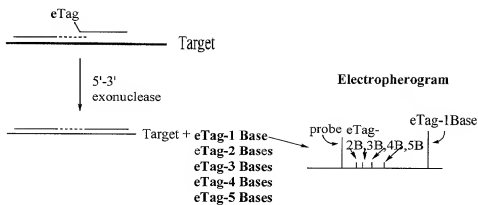
Cleaved Fragments:



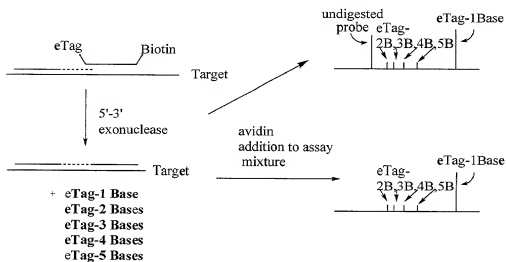
**Fig. 1C**



**Fig. 2**



**Fig. 3A**



**Fig. 3B**

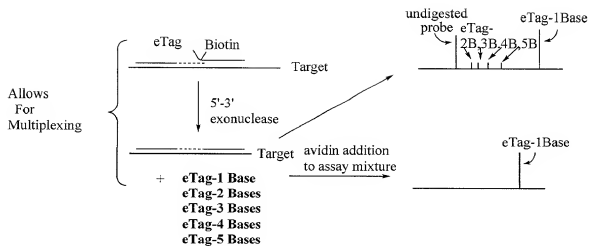


Fig. 3C

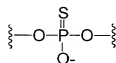
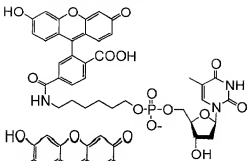
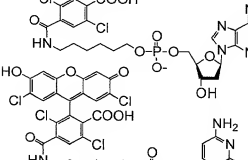
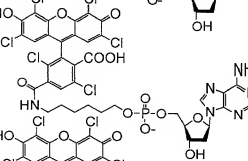
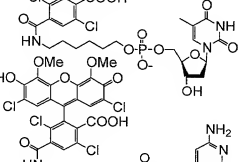
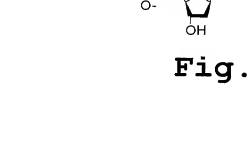



Fig. 3D

[illegible]

Fig. 4

<u>e-tag Reporter</u>	<u>Elution Time on CE, min</u>	<u>Mass</u>
	6.4	778
	7.1	925
	7.3	901
	7.7	994
	8.0	985
	9.25	961

**Fig. 5**

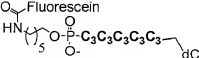
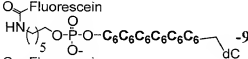
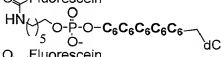
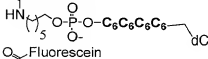
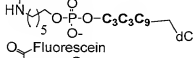
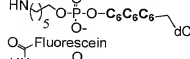
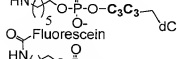
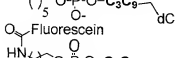
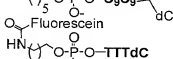
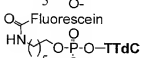
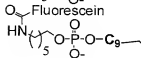
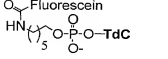

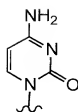
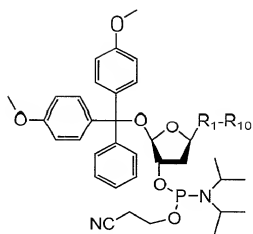
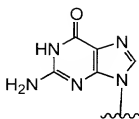
e-tag Reporter	Charge	Elution Time, min
	-8	12.1*
	-9	12.7
	-8	12.8
	-7	13.1
	-6	13.0
	-6	13.4
	-5	12.8*
	-5	13.2*
	-5	14.8
	-6	17.3
	-5	17.0
	-4	15.2*
	-4	16.5

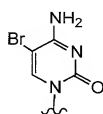
Fig. 6



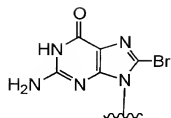
227



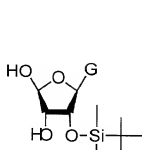
267



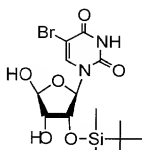
306



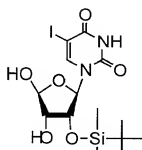
346



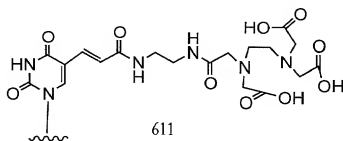
396



436



484

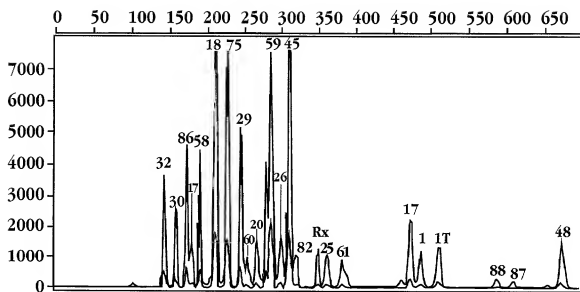


611

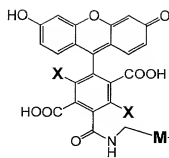
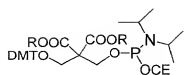
**Fig. 7**



TOP SECRET



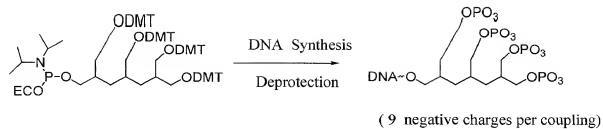
**Fig. 8**



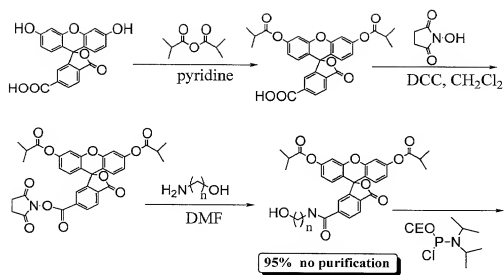
M = mobility modifier  
X = halogen



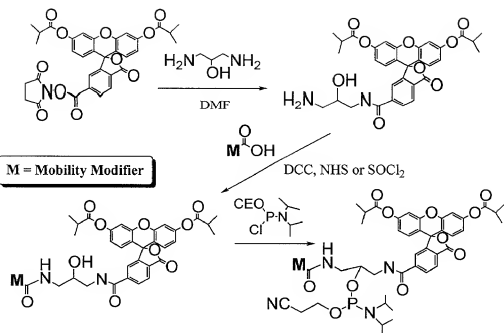
Fig. 9



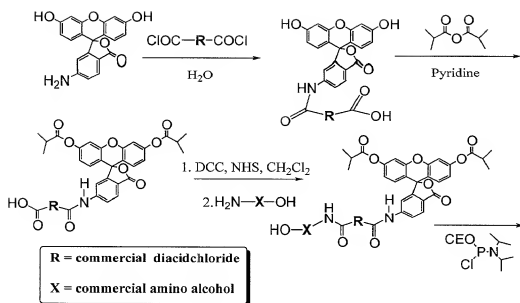
**Fig. 10**



**Fig. 11**

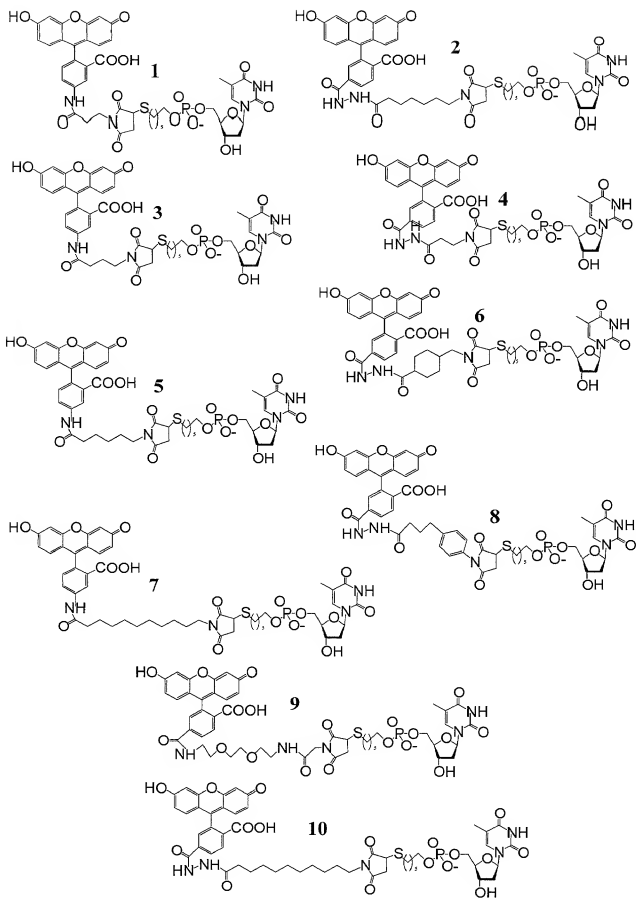


**Fig. 12**



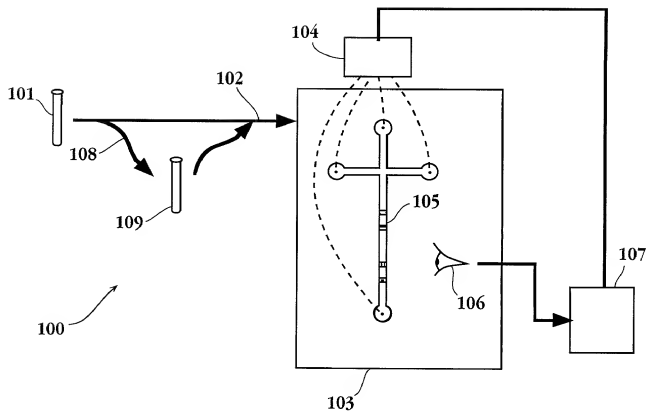
**Fig. 13**





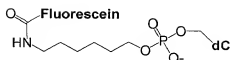
**Fig. 15**



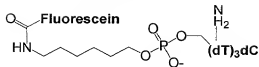


**Fig. 16**

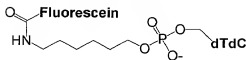
**ACLA001**



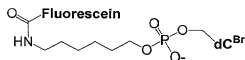
**ACLA007**



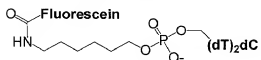
**ACLA002**



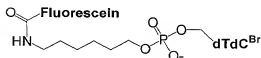
**ACLA008**



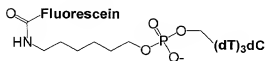
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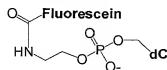
**ACLA009**



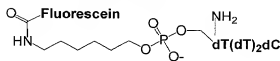
**ACLA004**



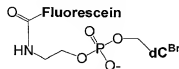
**ACLA010**



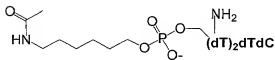
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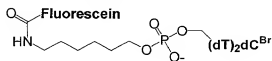
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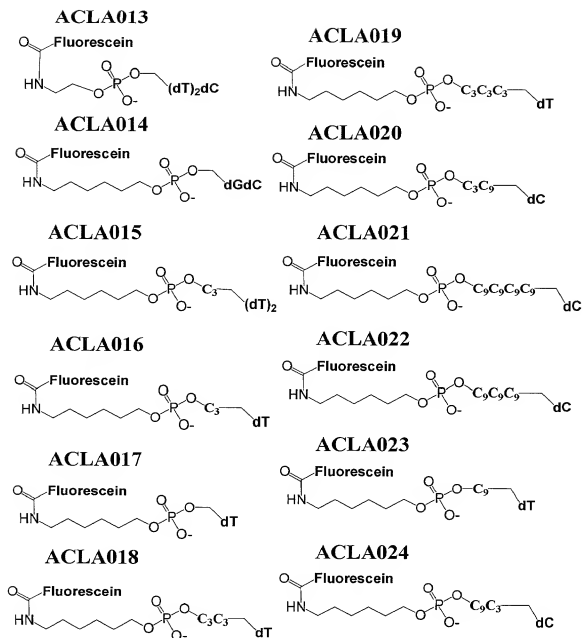
**ACLA006**



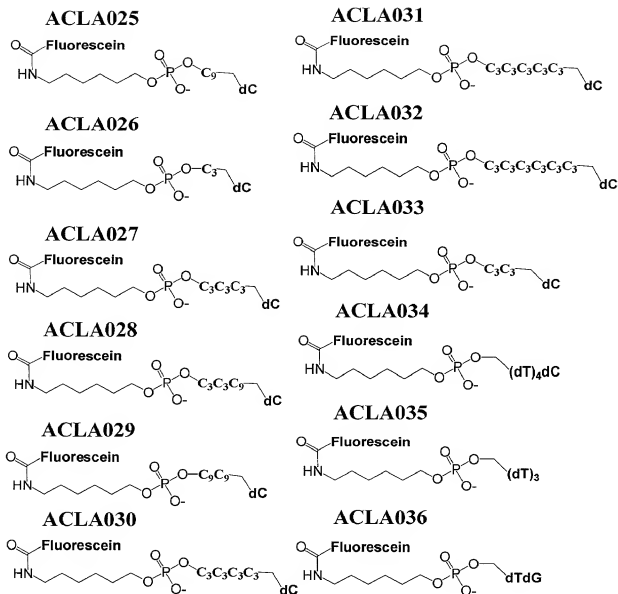
**ACLA012**



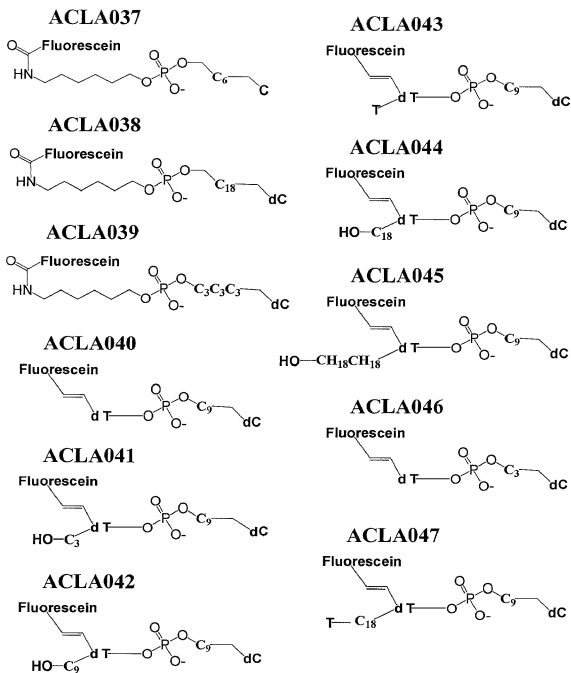
**Fig. 17A**



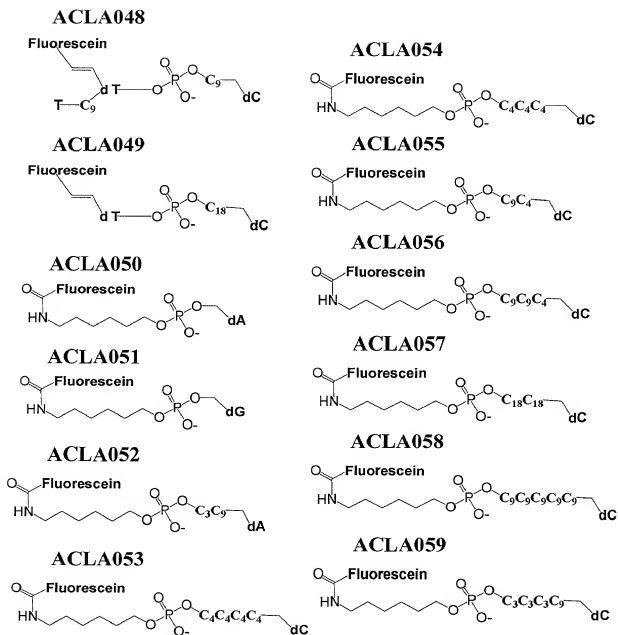
**Fig. 17B**



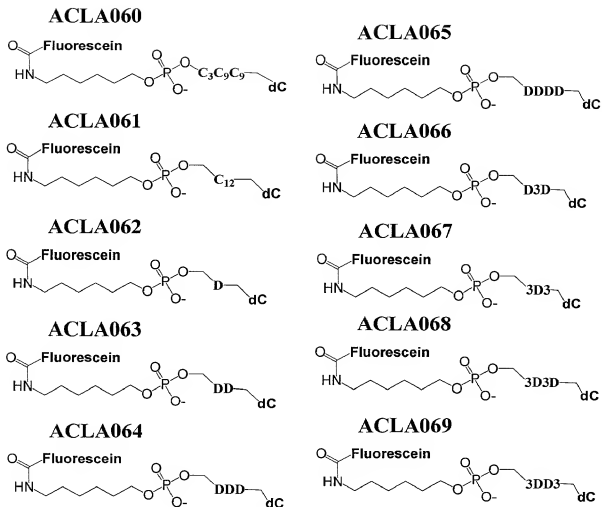
**Fig. 17C**



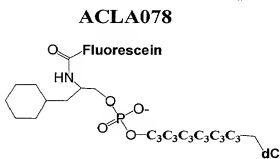
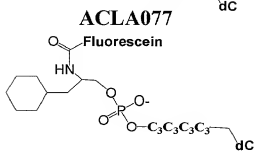
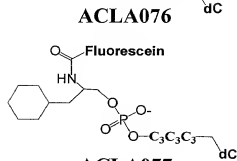
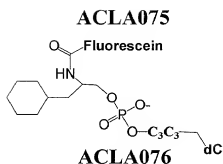
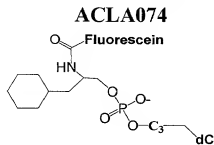
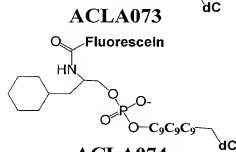
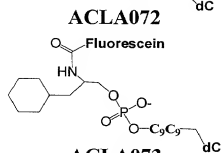
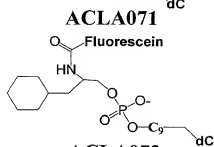
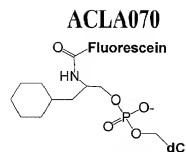
**Fig. 17D**



**Fig. 17E**

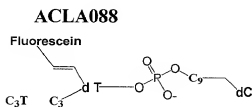
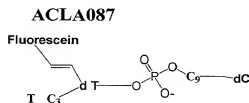
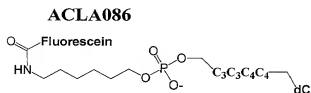
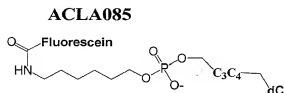
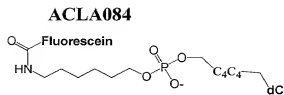
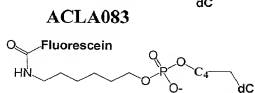
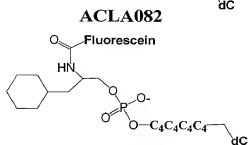
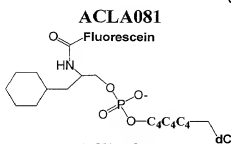
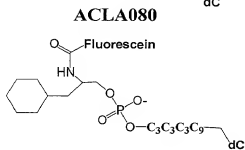
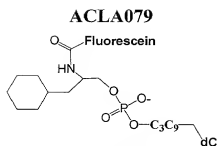


**Fig. 17F**



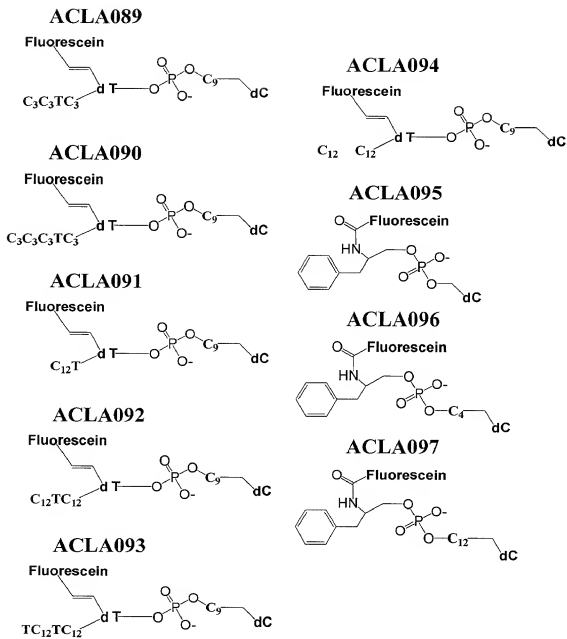
**Fig. 17G**



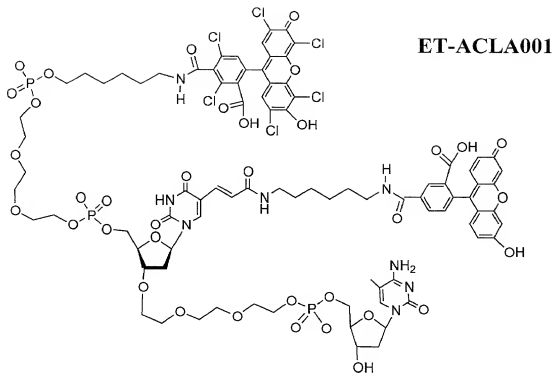


**Fig. 17H**

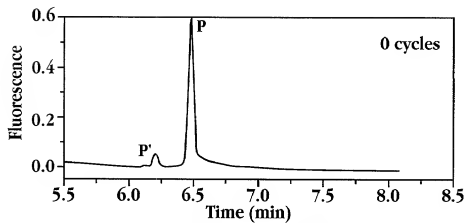
bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.



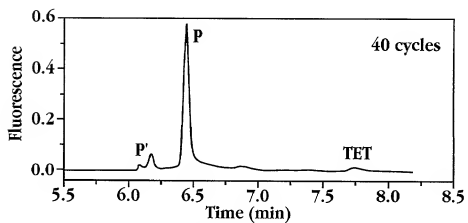
**Fig. 17I**



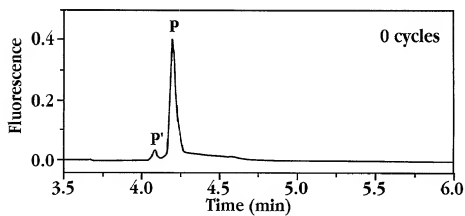
**Fig. 17J**



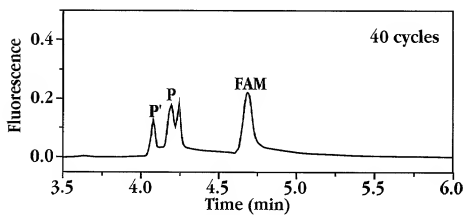
**Fig. 18A**



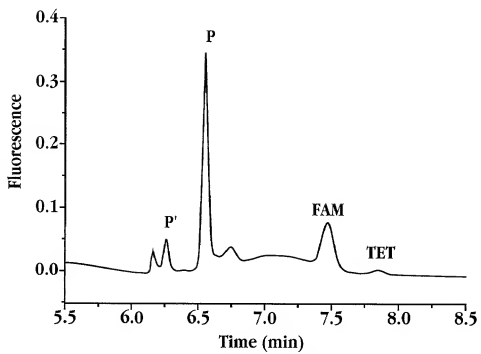
**Fig. 18B**



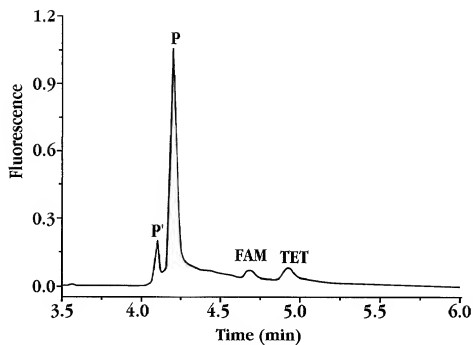
**Fig. 19A**



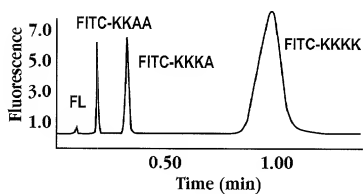
**Fig. 19B**



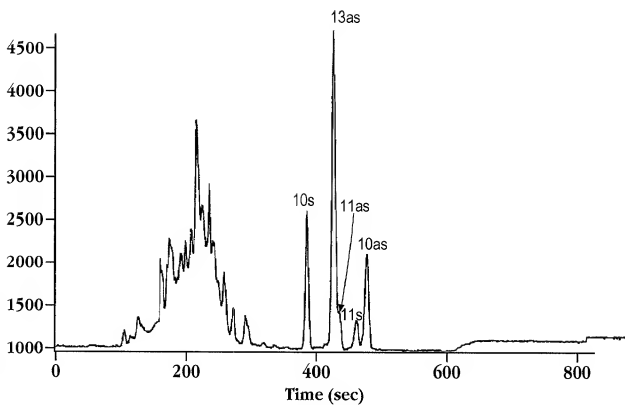
**Fig. 20**



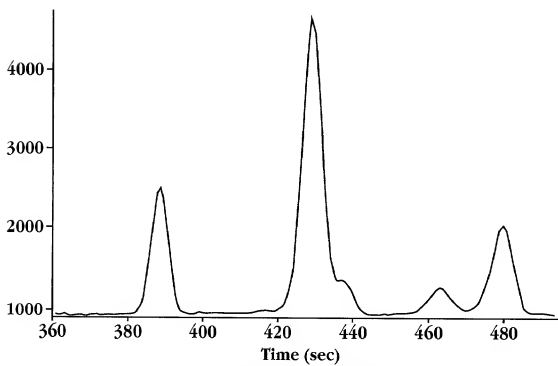
**Fig. 21**



**Fig. 22**

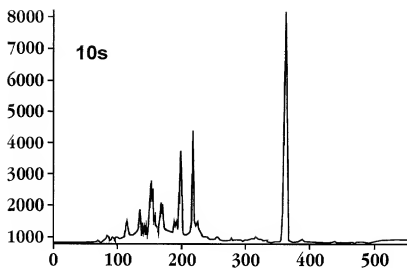


**Fig. 23A**

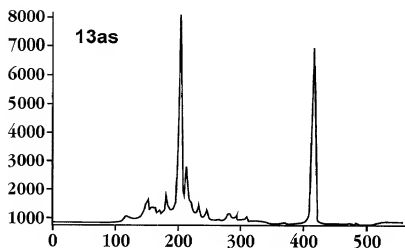


**Fig. 23B**

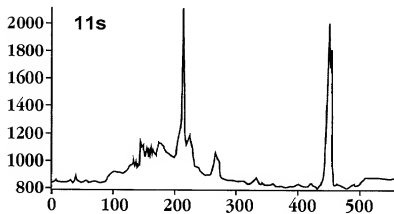




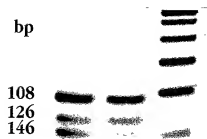
**Fig. 23C**



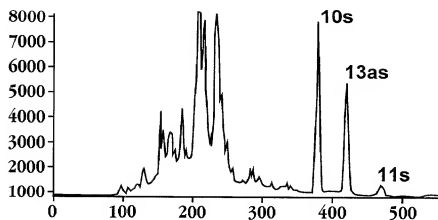
**Fig. 23D**



**Fig. 23E**

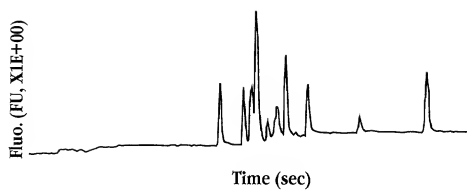


**Fig. 23F**



**Fig. 23G**

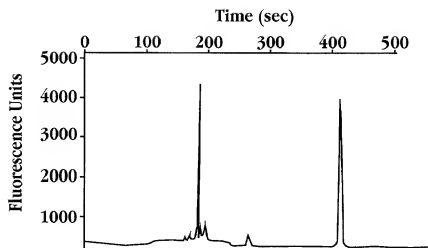
202510-001200



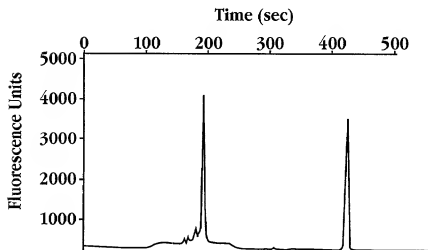
**Fig. 24**

**Fig. 25B**

10000-500000

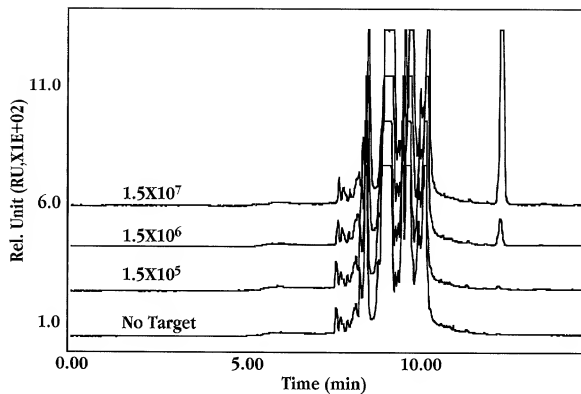


**Fig. 25C**



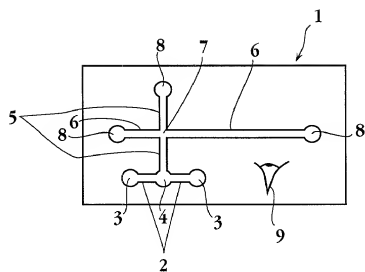
**Fig. 25D**

200010-50612000

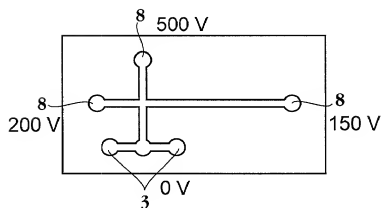


**Fig. 26**

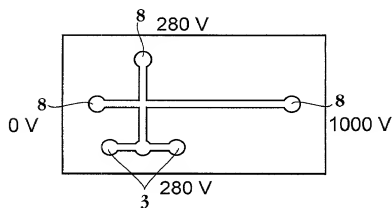
**Fig. 27**



**Fig. 28A**

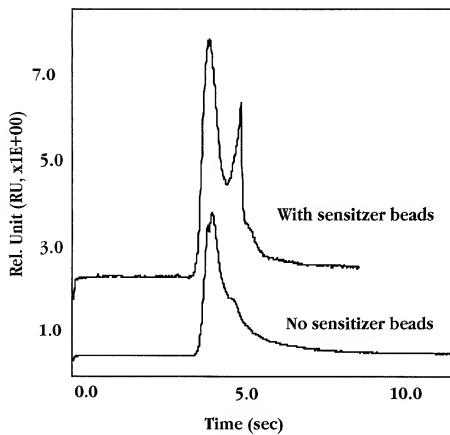


**Fig. 28B**

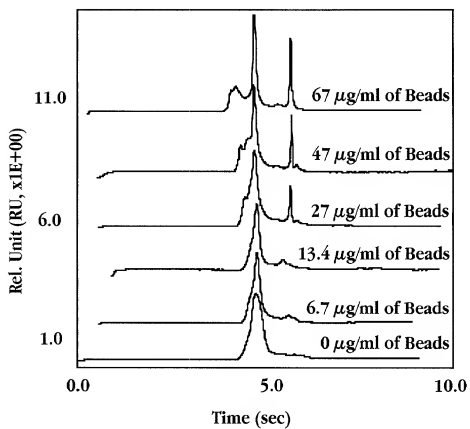


**Fig. 28C**

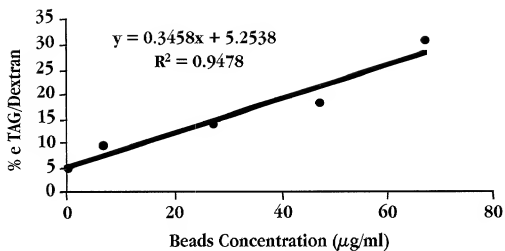




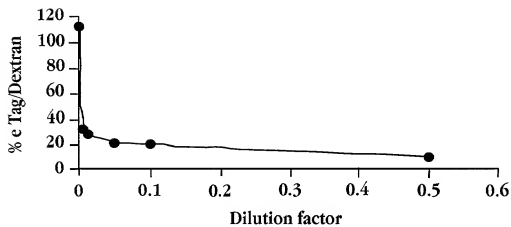
**Fig. 29**



**Fig. 30**



**Fig. 31**



**Fig. 32**

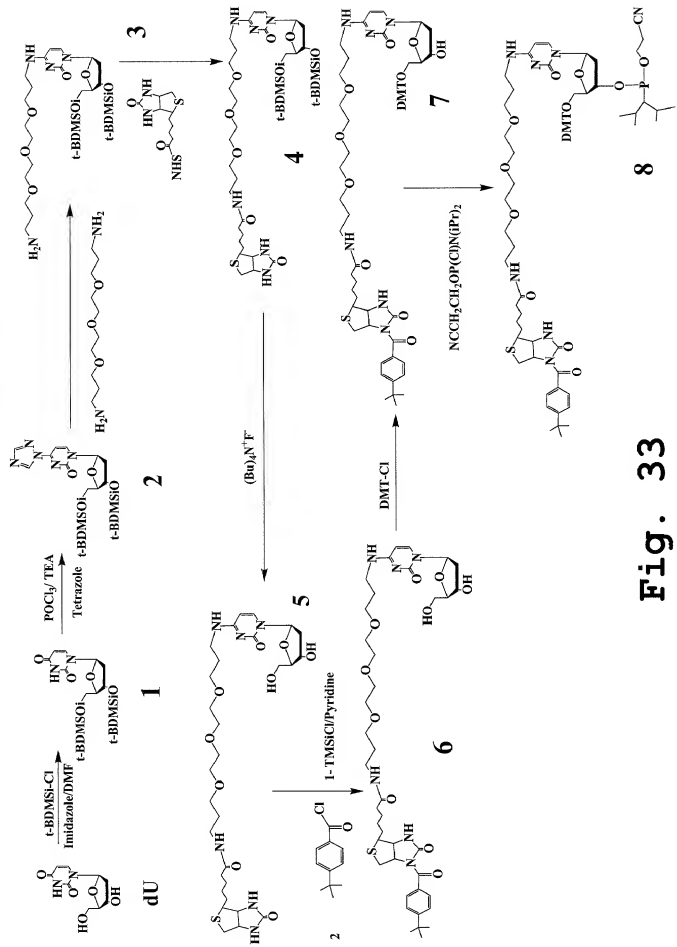


Fig. 33

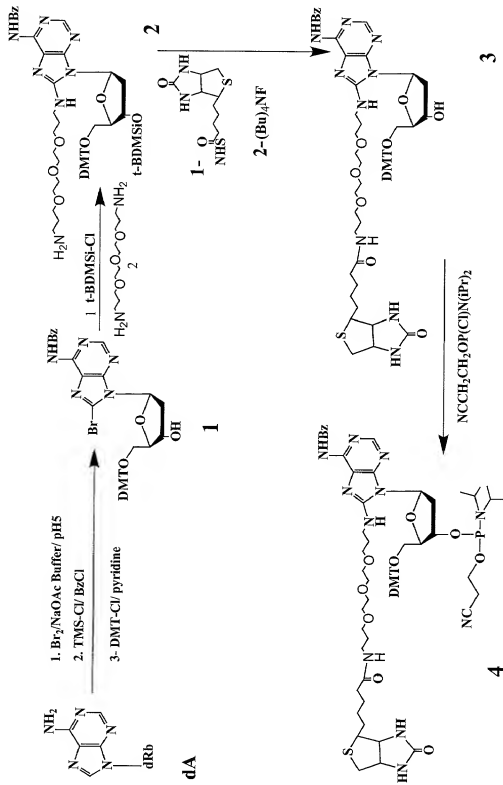


Fig. 34